

## ABSTRACT OF THE DISCLOSURE

A seal (10) includes a hot-melt polymer (12) with a foaming agent, and a heating agent (18) for providing heat to at least partially melt the hot-melt polymer (12) and to activate the foaming agent. A heat conductive barrier (16) is  
5 disposed between the hot-melt polymer (12) and the heating agent (18) to inhibit mixing of the heating agent (18) with the hot-melt polymer (12). This reduces the likelihood that the hot-melt polymer (12) will burn if the heating agent (18) produces a large quantity of heat, and also helps to ensure that the hot-melt polymer (12) will be uncontaminated by the heating agent (18) and will therefore form an effective  
10 seal. When the foaming agent is activated by the heat, it produces gas to expand the partially melted hot-melt polymer (12) to fill gaps and form an effective seal.